

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6297	(bismuth adj titanium adj silicon adj oxide) or BST	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 11:49
L2	2	1 and pyrochlore	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 11:07
L3	9	pyrochlore	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 11:07
L4	929	pyrochlore	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 11:19
L5	79	1 and pyrochlore	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 11:08
L6	3	(bismuth adj titanium adj silicon adj oxide) or (Bi adj Ti adj Si adj O)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 12:09
L7	24	pyrochlore and ((bi or bismuth) with (titanium or Ti) with (silicon or si) with (oxide or oxygen or O))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 11:20
L8	3	(bismuth adj titanium adj silicon adj oxide)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 11:49
L9	1355	(bismuth with titanium with silicon with (oxide or oxygen)) or (Bi with Ti with Si with O)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 13:04
L10	4	9 same pyrochlore	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 12:08
L11	15	((bismuth adj titanium adj (oxide or oxygen)) or (Bi adj Ti adj O)) with (si or silicon)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 12:17
L12	1517	(501/134).CCLS.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 12:17

L13	63	12 and (silicon or si) and (bi or bismuth) and (oxygen or oxide or O) and (titanium or ti)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 12:20
L14	62	13 and (@ad<"20030806" or @rlad<"20030806")	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 12:20
L15	11	12 and ((silicon or si) with (bi or bismuth) with (oxygen or oxide or O) with (titanium or ti))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 12:20
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L17	235	BLT and dielectric	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 13:05
L18	177	17 and (Si or silicon)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 13:06
L19	27163	BIT and dielectric	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 13:06
L20	285	(BIT with (Bi or bismuth)) and dielectric	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 13:07
L21	198	20 and (silicon or si)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 14:07
L22	83935	(bismuth titanate)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 14:07
L23	910	(bismuth adj titanate)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 14:08
L24	34	23 same modified	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 14:52

L25	6097	"bi.sub.2"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 14:53
L26	392	"26" with ("O.sub.6" or "O.sub.7" or "O.sub.8")	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 14:56
L27	58	26 and (dielectric or ferroelectric)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 14:57
L28	840	25 with ("O.sub.6" or "O.sub.7" or "O.sub.8")	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 14:59
L29	326	28 and (dielectric or ferroelectric)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 14:59
L30	325	29 and (@ad<"20030806" or @rlad<"20030806")	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 14:59
L31	593	25 near4 ("O.sub.6" or "O.sub.7" or "O.sub.8")	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 15:04
L32	213	31 and (dielectric or ferroelectric)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 14:59
L33	212	32 and (@ad<"20030806" or @rlad<"20030806")	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 15:00
L34	8	31 with (si or silicon)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 15:05
L35	10884	((257/295,310) or (438/3) or (501/134) or (428/446,689,702)). CCLS.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 16:04
L36	76	35 and ((bi or bismuth) with (si or silicon) with (o or oxide or oxygen) with (ti or titanium))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 16:05

L37	52	36 and (dielectric or ferroelectric)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 16:05
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Hu, G.D.; Xu, J.B.; Wilson, I.H.; Cheung, W.Y.; Ke, N.; Chan, W.K.; Wong, S.P.;
Applications of Ferroelectrics, 1998. ISAF 98. Proceedings of the Eleventh IEEE International Symposium on , 24-27 Aug. 1998
Pages:163 - 166

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Materials Letters, In Press, Corrected Proof, Available online 19 February 2005,
Chune Peng, Jing-Feng Li and Wen Gong
[Abstract](#)

2. ☐ **Preparation of BiMeVO_x (Me = Cu, Ti, Zr, Nb, Ta) compounds as solid electrolyte and behavior of their oxygen concentration cells** • ARTICLE
Sensors and Actuators B: Chemical, In Press, Corrected Proof, Available online 16 February 2005,
H.S. Cho, G. Sakai, K. Shimano and N. Yamazoe
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Germund Tyler
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6916431, A2001-11-6855-087, B2001-06-2810F-024; 20010507.

Title

Effect of silicon on the microstructure of pulsed laser ablated ferroelectric PbTiO/sub 3/ thin films.

Author(s)

Banerjee-R; Purandare-S-C; Palkar-V-R; Pinto-R.

Author affiliation

Dept of Condensed Matter Phys & Mater Sci, Tata Inst of Fundamental Res, Bombay, India.

Source

Journal-of-Physics-D (Applied Physics)(UK), vol.34, no.7, p.1037-43, 7 April 2001., Published: IOP Publishing.

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ISSN: 0022-3727, CCCC: 0022-3727/2001/071037+07 (\$30.00).

Availability

SICI: 0022-3727(20010407)34:7L:1037:ESMP; 1-Y
Electronic Journal Document Number: S0022-3727(01)18023-X.

Publication year

2001.

Language

EN.

Publication type

J Journal Paper.

Treatment codes

P Practical; X Experimental.

Abstract

Ferroelectric thin films of lead titanate (PbTiO₃/sub 3/) have been deposited on silicon substrates using pulsed laser ablation. The targets from which the films were deposited consisted of lead titanate added with different amounts of silicon, the motivation being to reduce the formation of the non-ferroelectric interfacial layer of the **pyrochlore** phase, which is detrimental to the properties of the film. Using transmission electron microscopy, a detailed microstructural characterization of the films has been carried out. Films deposited from targets, added with ~2 mol% **Si**, exhibit an interconnected network of perovskite grains encompassing pockets of an amorphous **Si-O** rich phase. The grains of the perovskite phase are equiaxial. In addition, fine grains of the **pyrochlore** phase were observed within the pockets of the amorphous phase. Increasing the level of **Si** to ~10 mol% in the lead titanate target results in films which exhibit needle-like grains of the perovskite phase dispersed in an amorphous **Si-O** rich matrix. These needle-like grains are no longer interconnected. The effect of silicon on the phase evolution in these films and the consequent effect on the ferroelectric properties have been discussed in this paper. (10 refs).

Descriptors

crystal-microstructure; ferroelectric-materials; ferroelectric-thin-films; lead-compounds; pulsed-laser-deposition; silicon; substrates.

Keywords

microstructure; pulsed laser ablated ferroelectric PbTiO₃ films; **Si** substrates; non ferroelectric interfacial layer; **pyrochlore** phase; transmission electron microscopy; perovskite grains; needle like grains; PbTiO₃; **Si**.

Classification codes

A6855 (Thin film growth, structure, and epitaxy).
 A7780 (Ferroelectricity and antiferroelectricity).
 A7755 (Dielectric thin films).
 A8115I (Pulsed laser deposition).
 A6480G (Microstructure).
 B2810F (Piezoelectric and ferroelectric materials).
 B0520H (Pulsed laser deposition).

Chemical indexing

PbTiO₃ ss, TiO₃ ss, O₃ ss, Pb ss, Ti ss, **O** ss; **Si** sur, **Si** el.

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Journal of Organometallic Chemistry, Volume 610, Issues 1-2, 22 September 2000,

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